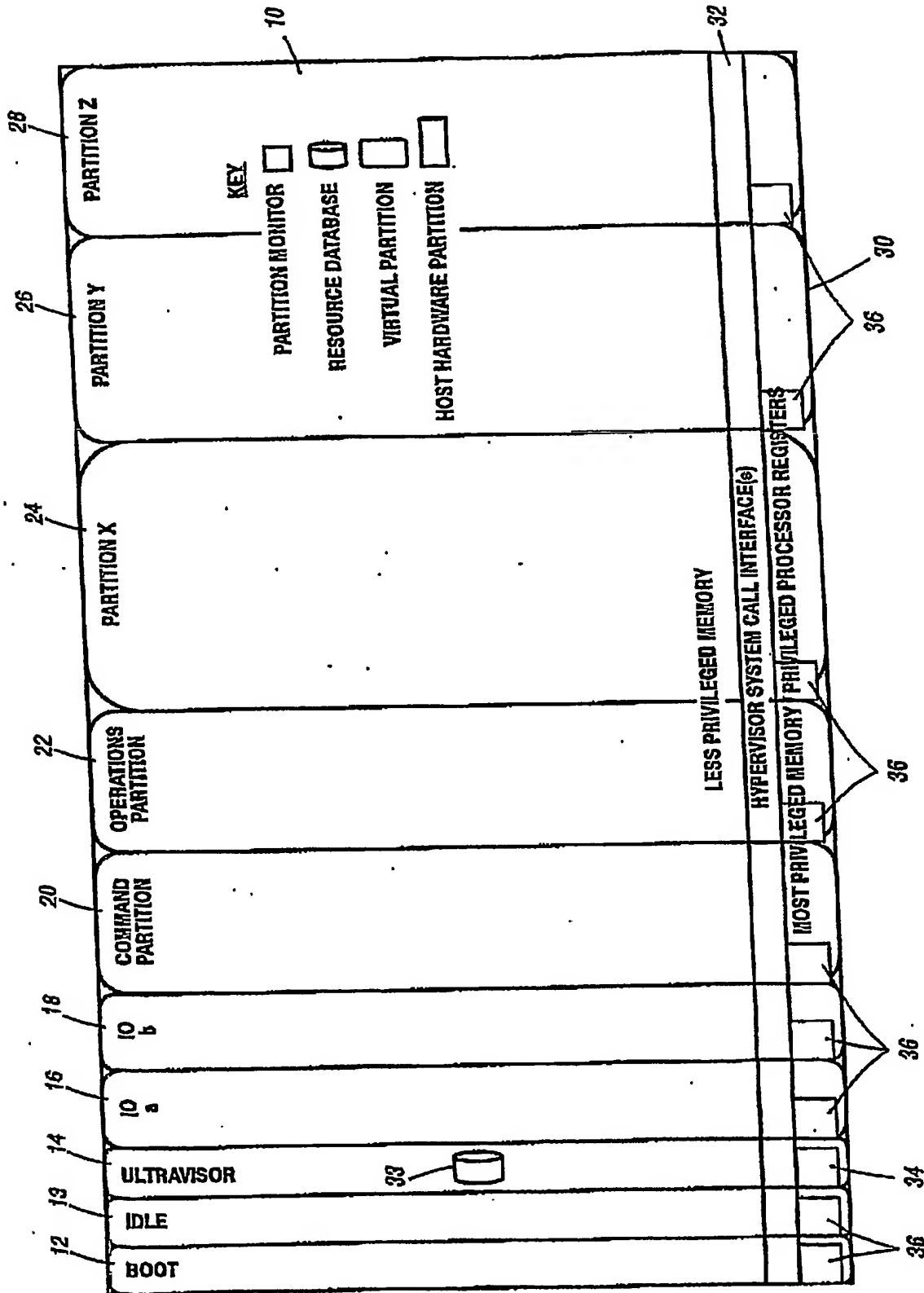


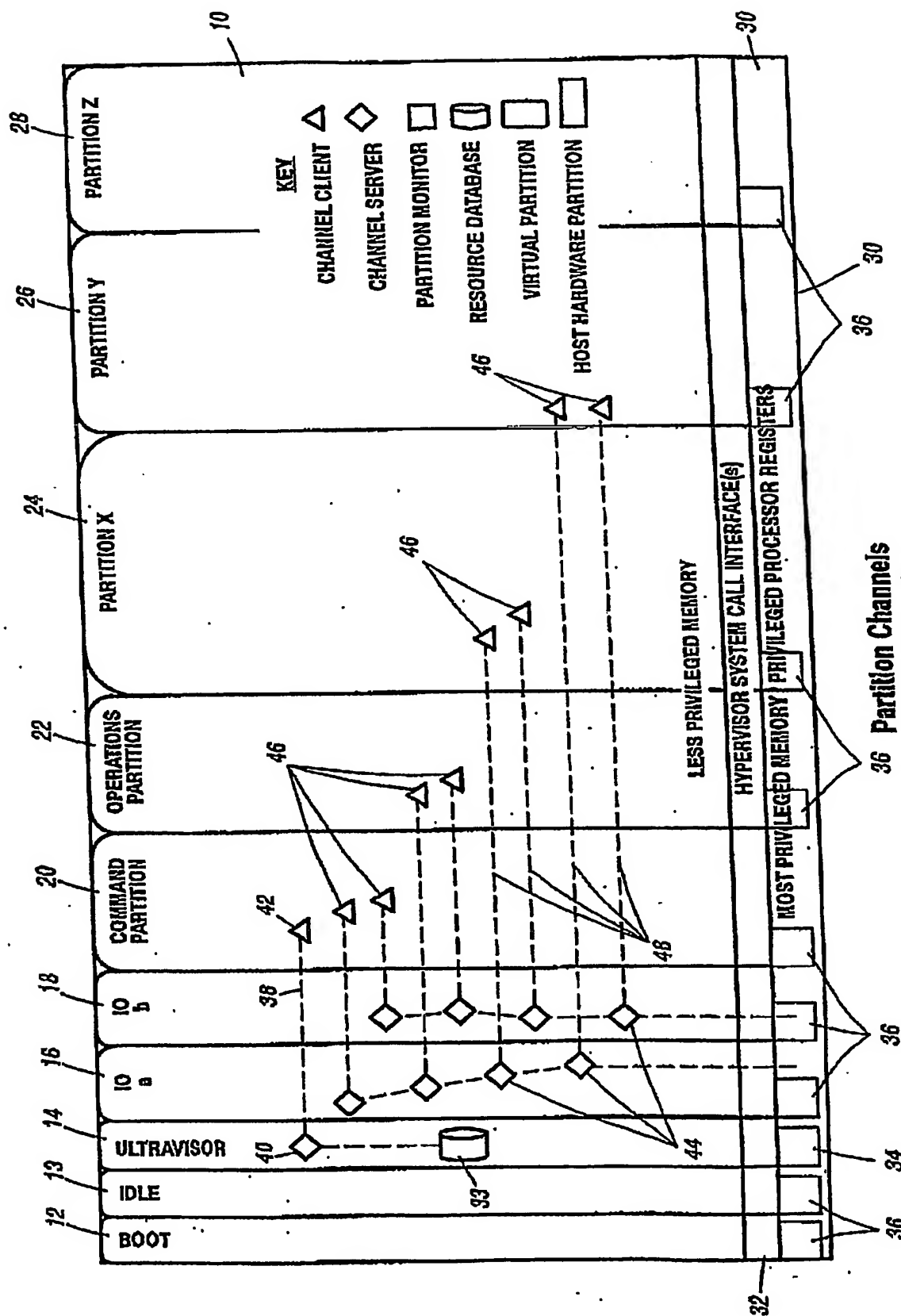
Partitioned Host System

Figure 1

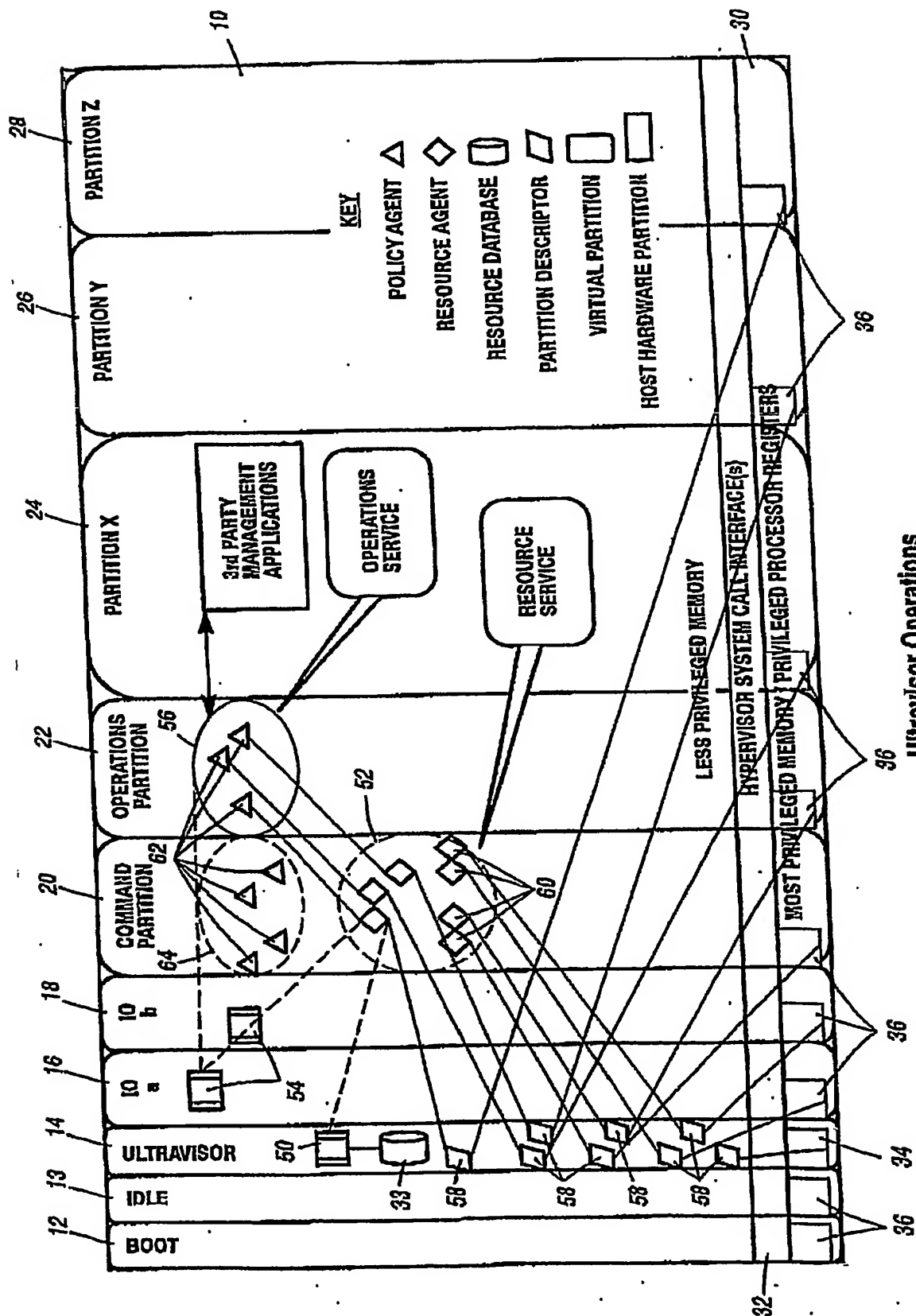


Partition Monitors

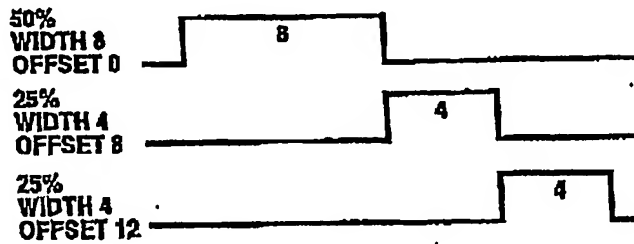
**Figure 2**



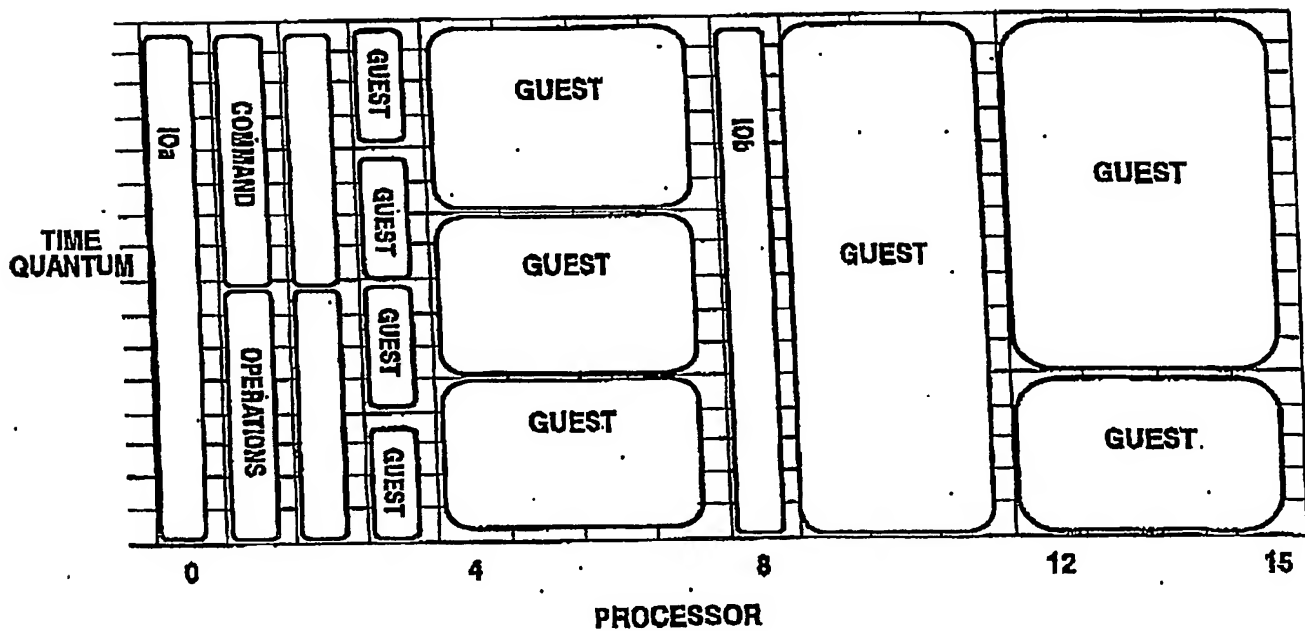
Partition Channels  
 Figure 3



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OVERLAPPED PROCESSOR THROTTLING - DEFAULT 4 BIT DUTY WIDTH ( $1/16 = 6.25\%$ )

Processor Sharing

Figure 5

Processor Schedule

Figure 6

| $(2^{10})^n$ | SI Prefix | SI Name | Page Table | Pageantry | IA32/EM32T |
|--------------|-----------|---------|------------|-----------|------------|
| 1            | K         | kilo    | PKM        | PKE       | PT/PTE     |
| 2            | M         | mega    | PMM        | PME       | PD/PDE     |
| 3            | G         | giga    | PGM        | PGE       | PDP        |
| 4            | T         | tera    | PTM        | PTE       | PML4       |
| 5            | P         | peta    | PPM        | PPE       |            |
| 6            | E         | Exa     | PEM        | PEE       |            |
| 7            | Z         | zetta   | PZM        | PZE       |            |
| 8            | Y         | yotta   | PYM        | PYE       |            |

SI Prefixes for Page Table Hierarchy

Figure 7

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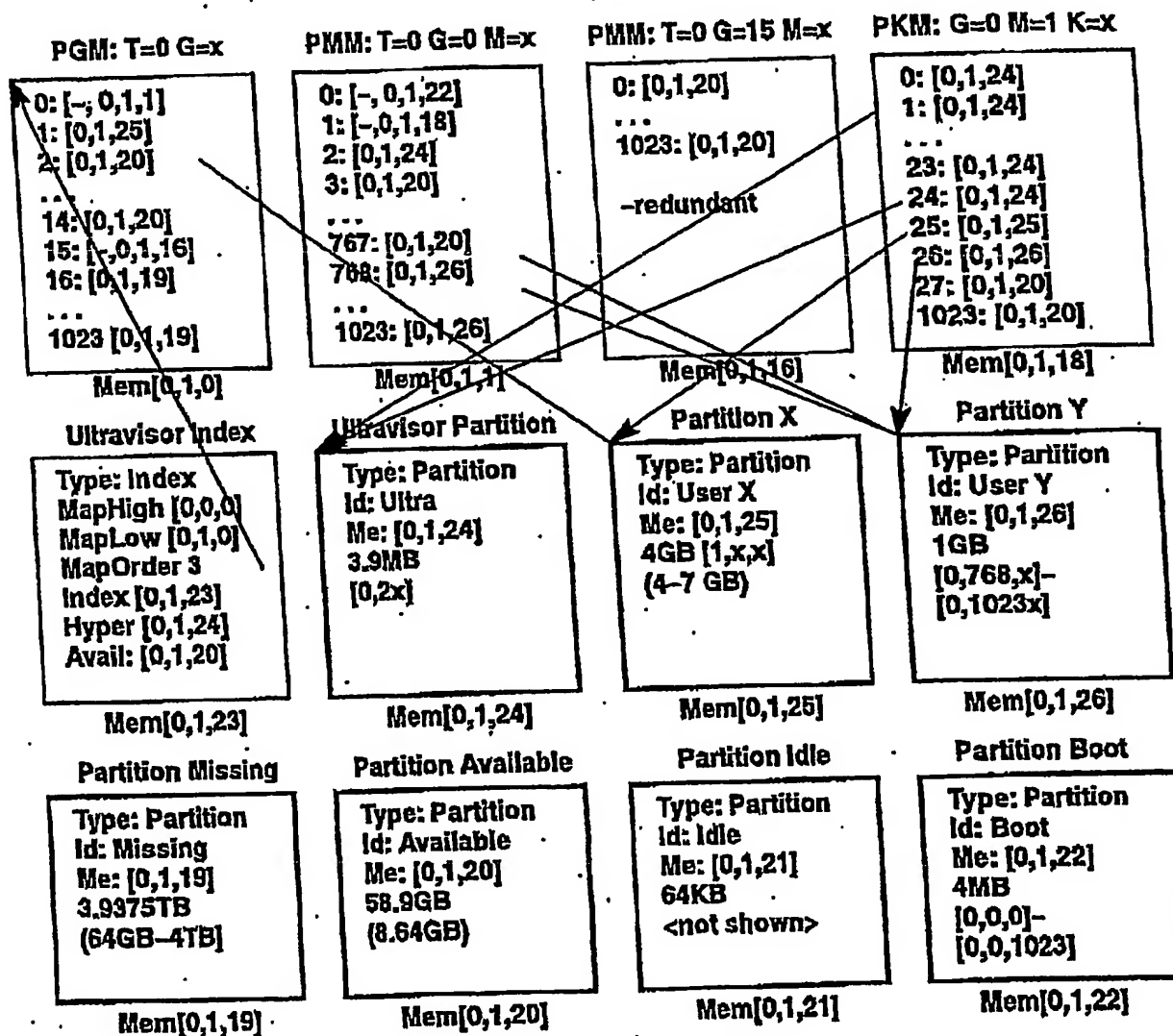
Function GetMemoryOwner [T : 0..1023, G:0..1023, M:0..1023, K:0..1023] of Int32

Memory Index Ref

| 1 | GB | MB | KB |
|---|----|----|----|
|---|----|----|----|

Partition number (32 bits)

| O/S | Node (GB) | MB | KB |
|-----|-----------|----|----|
|-----|-----------|----|----|

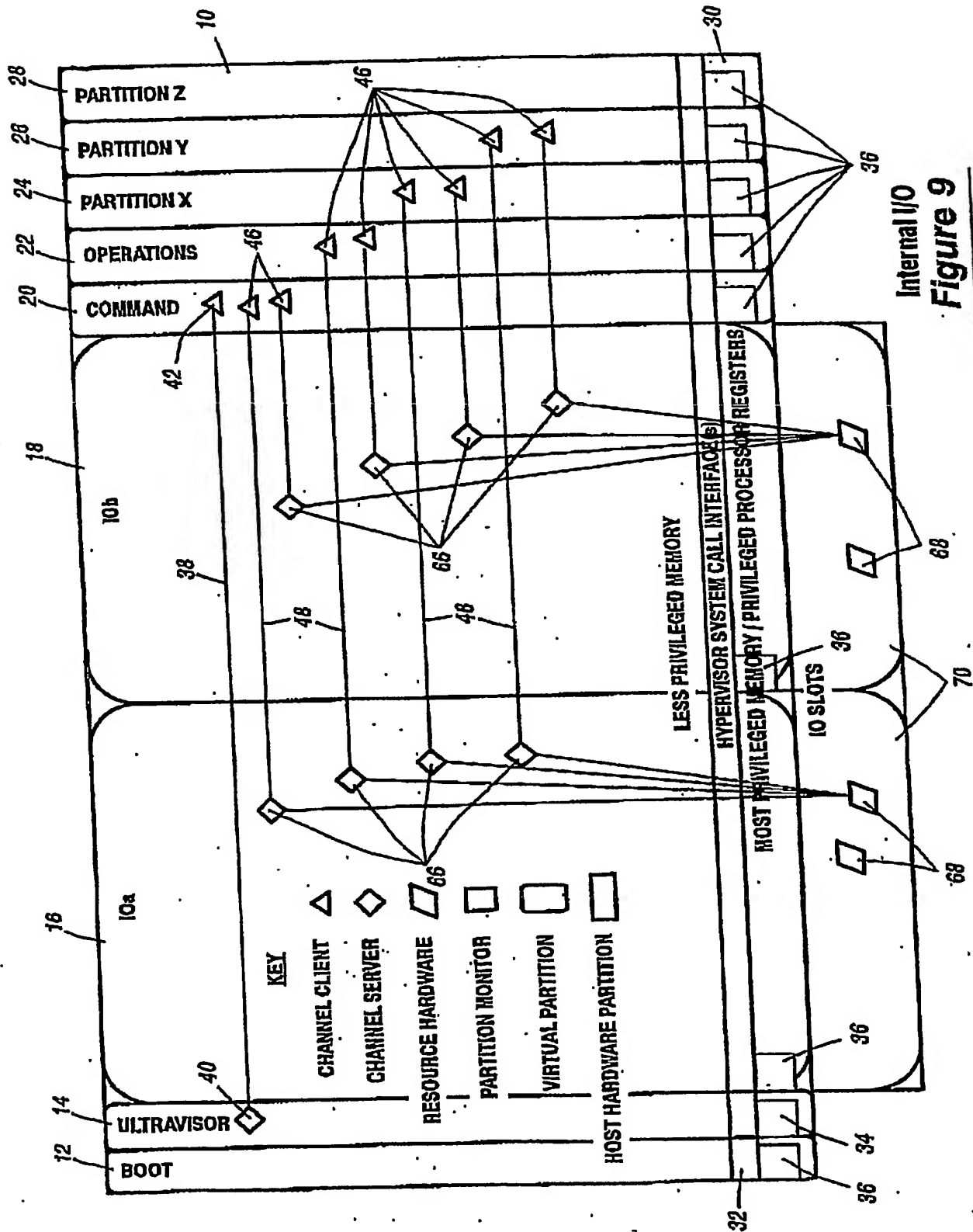


Where Mem[G,M,K] := ((G \* 2\*\*10+M) \* 2\*\*10 + K) \* 2\*\*10\*2\*\*2

Partition Memory Map

**Figure 8**

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Internal I/O  
Figure 9



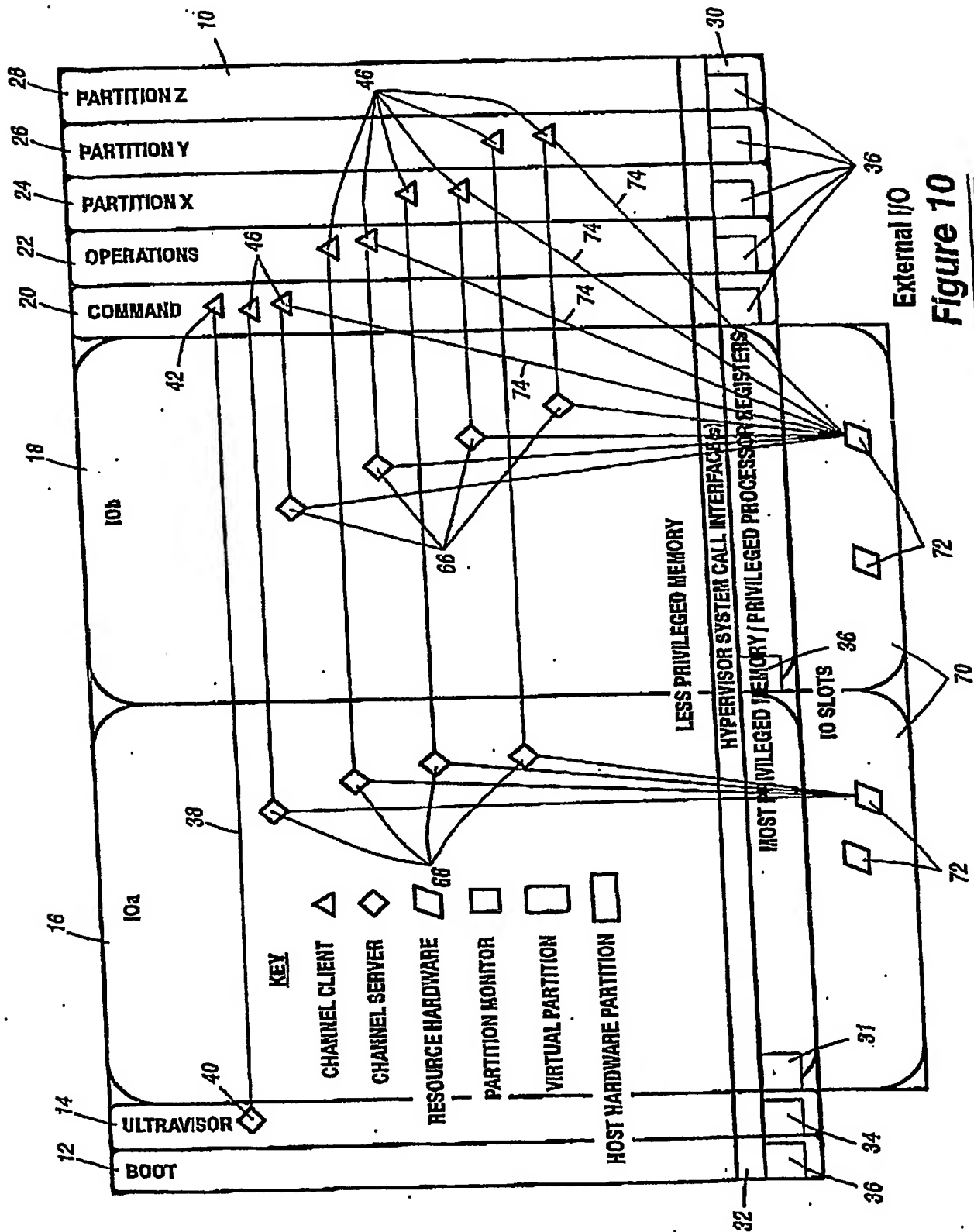
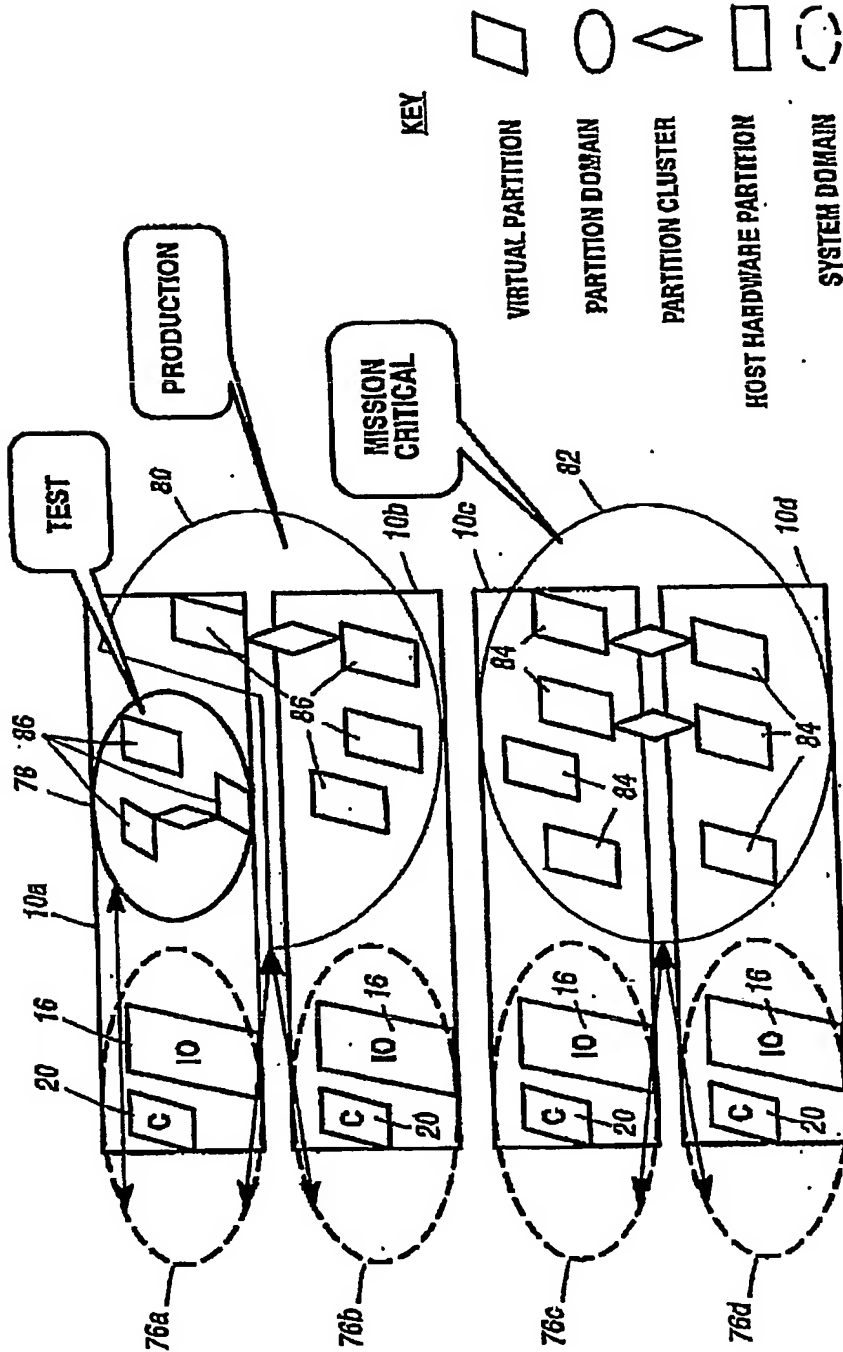


Figure 10

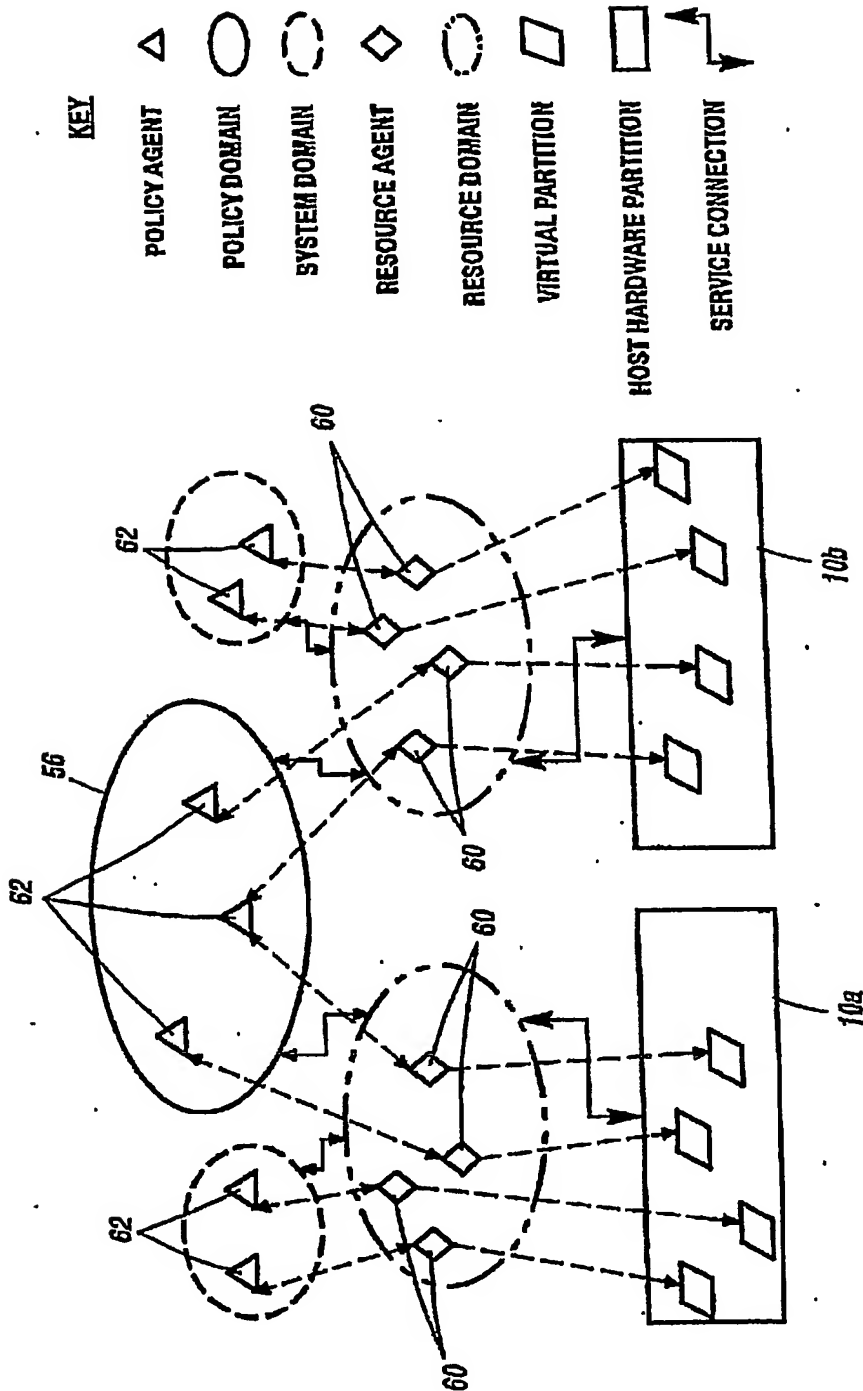
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Ultravisor Domains

**Figure 11**

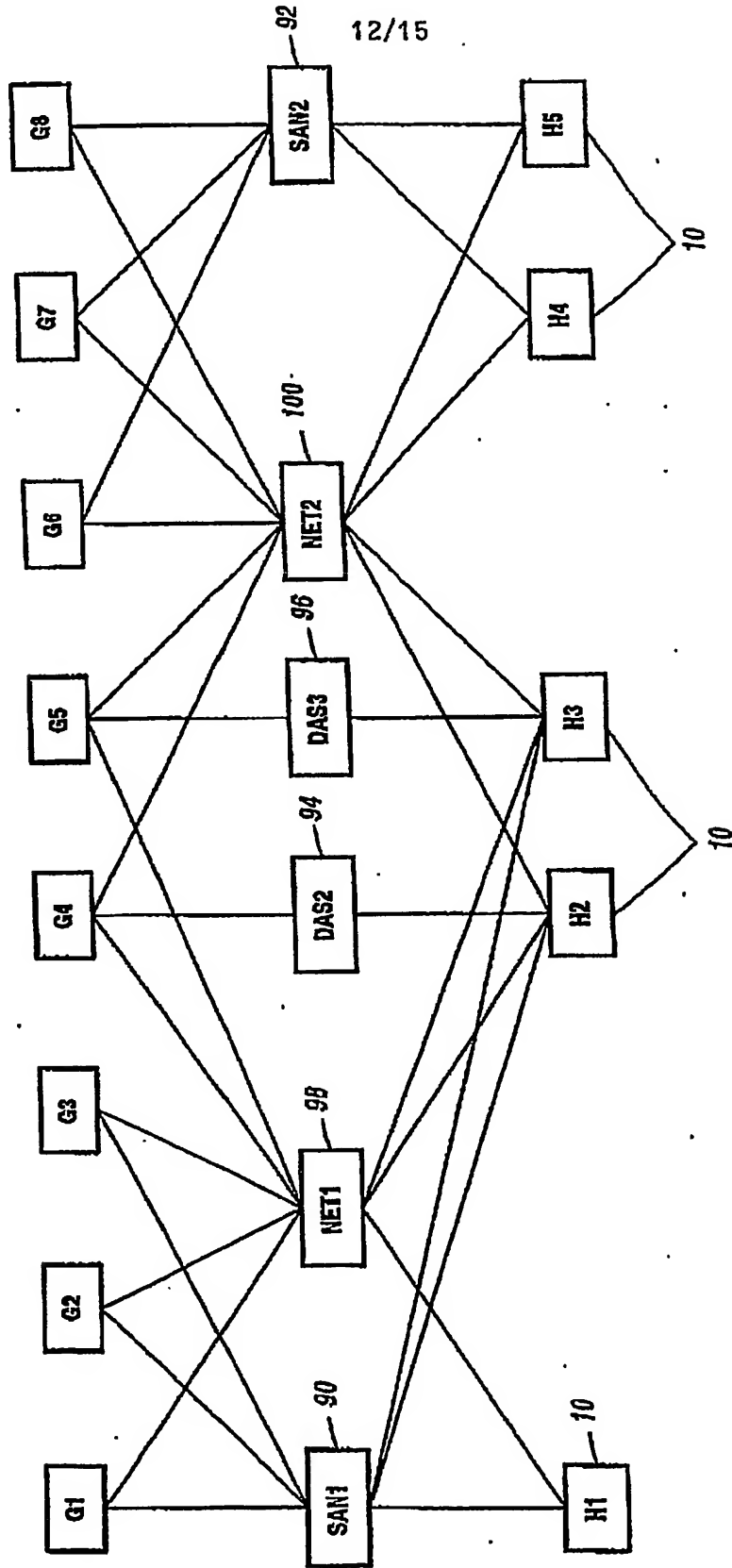
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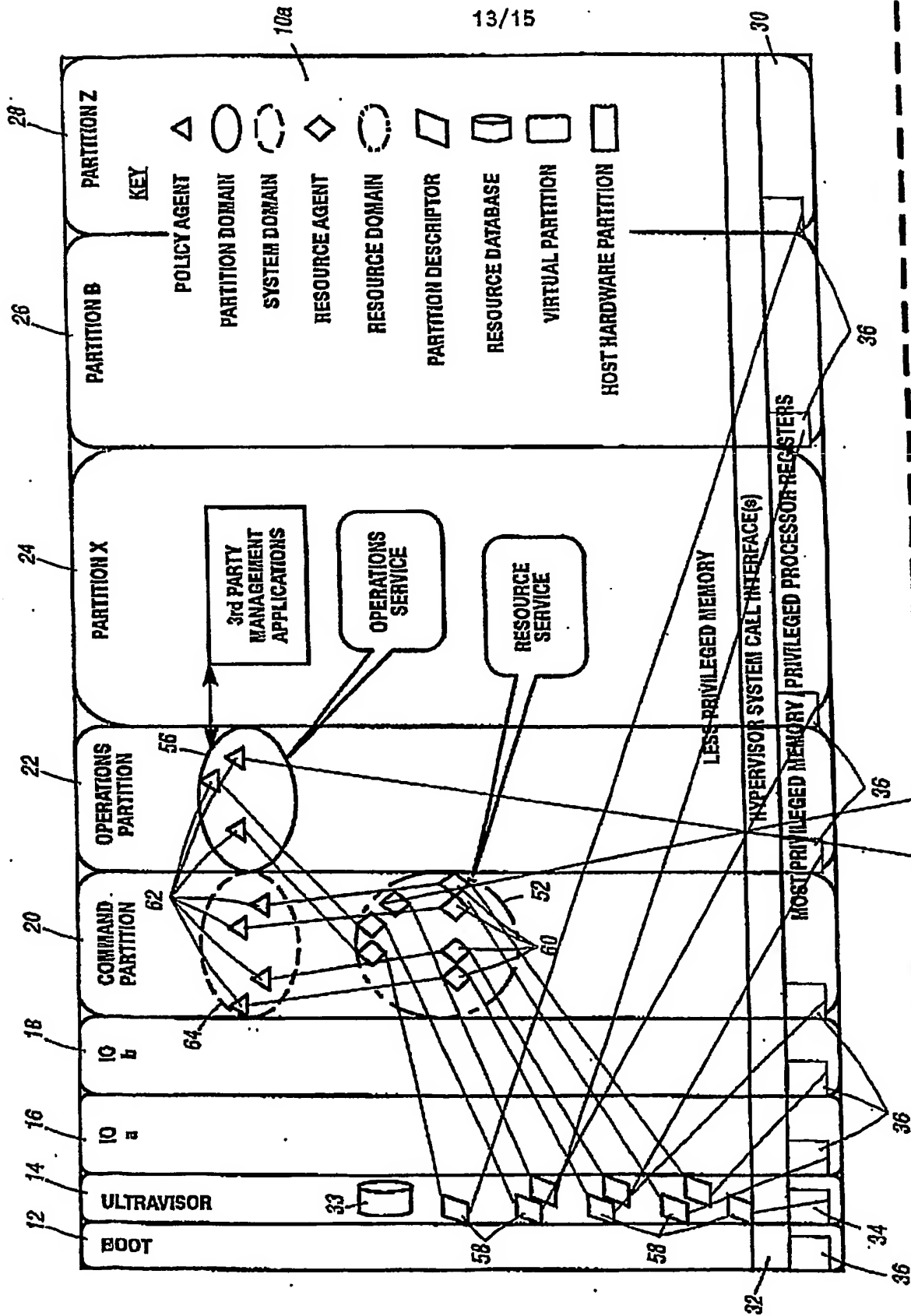
Ultravisor Partition Agents

**Figure 12**

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Virtual Data Center Zones  
**Figure 13**

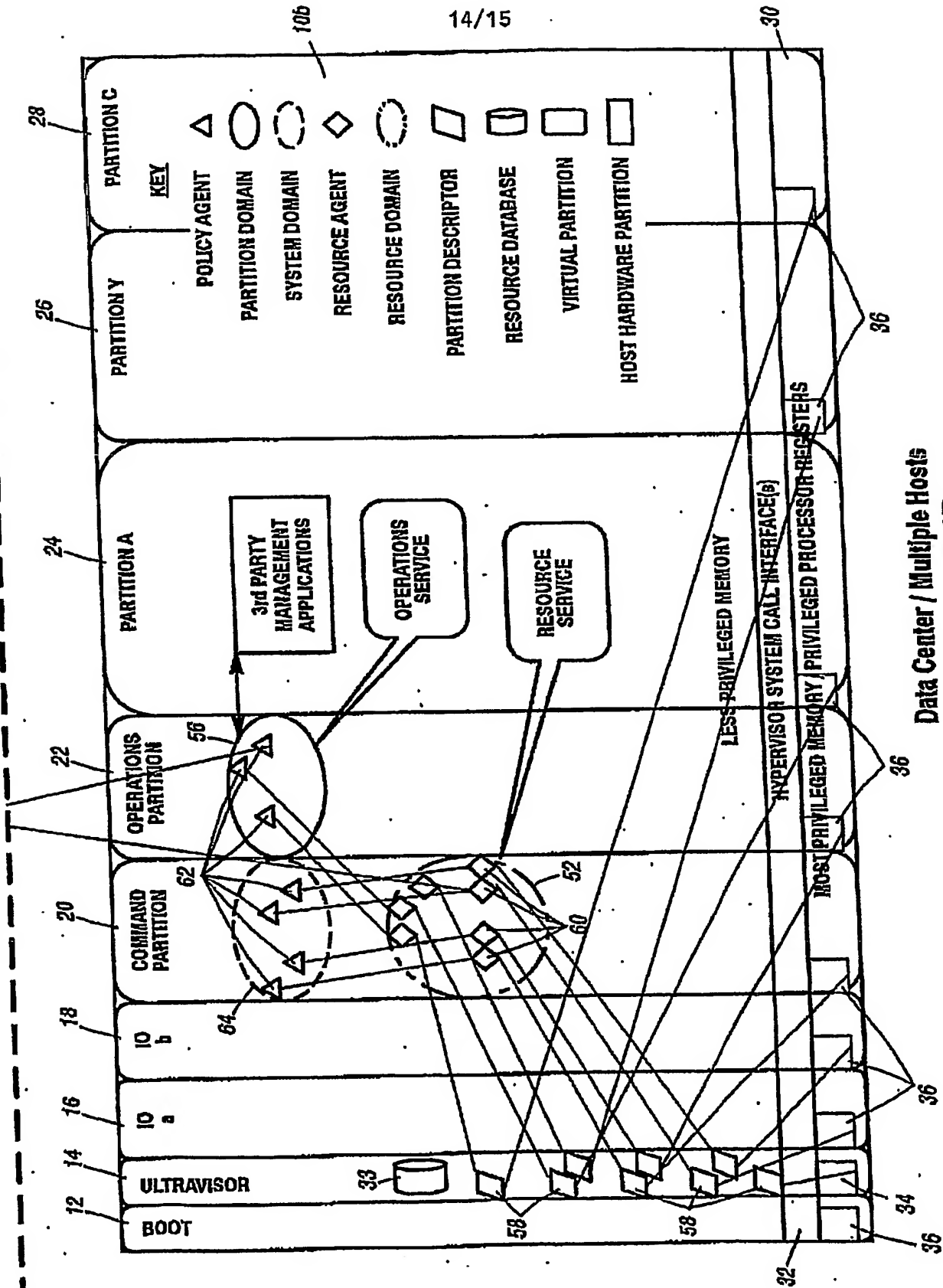


Data Center / Multiple Hosts  
**Figure 14A**

**Figure 14**

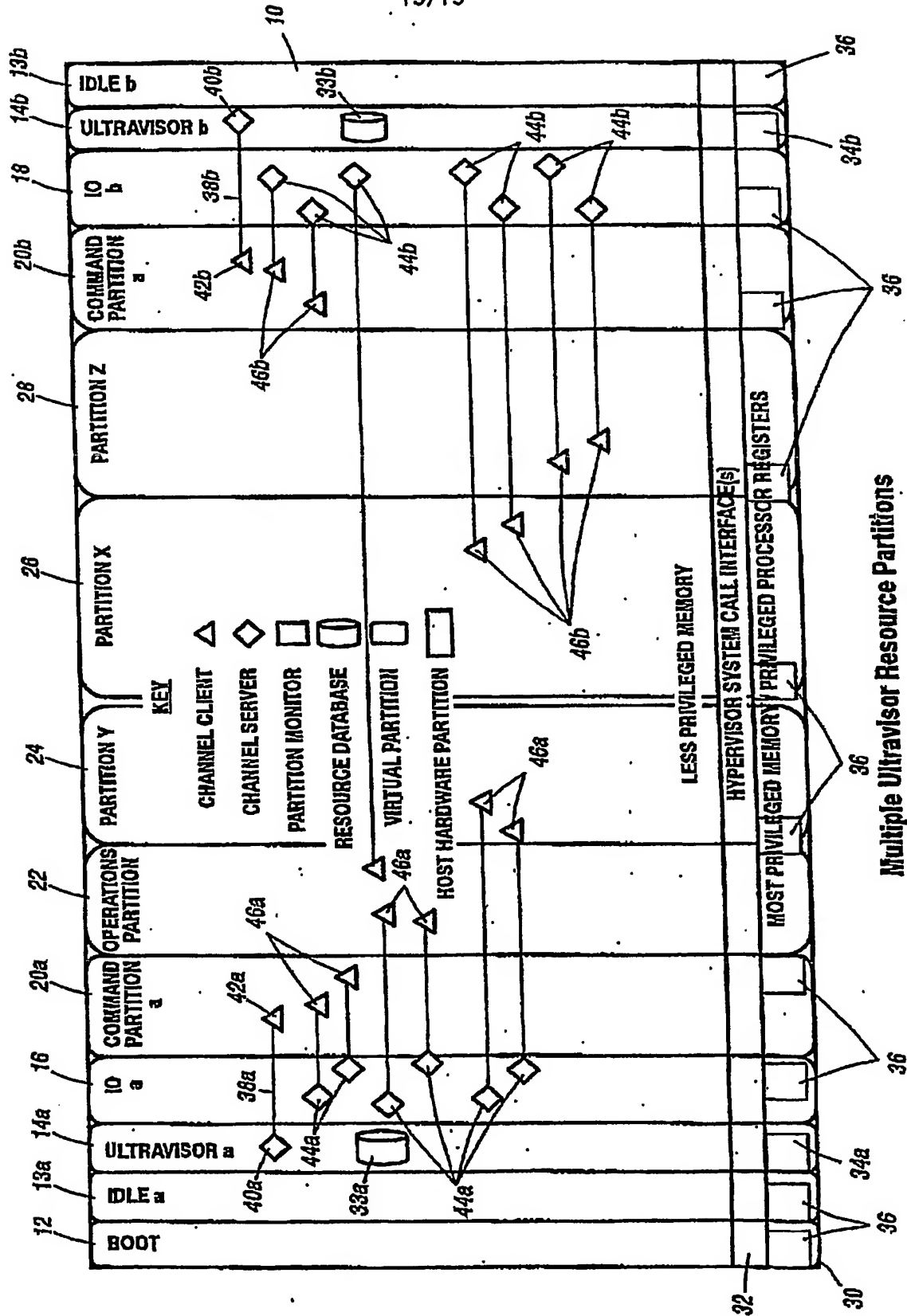
**Fig. 14A**

**Fig. 14B**



Data Center / Multiple Hosts

**Figure 14B**



Multiple Ultravisor Resource Partitions

Figure 15

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